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STATE OF UTAH  
DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH  
Utah Water Pollution Control Committee

150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

533-6146  
August 31, 1984

Calvin K. Sudweeks  
Executive Secretary  
Rm 410 (801) 533-6146

RECEIVED

SEP 4 1984

DIVISION OF OIL  
GAS & MINING

RE: Cyanide heap leach test  
operation, Clifton UT

*Clifton Flats near Gold Hill*

Dear Mr. Huffaker:

The Bureau of Water Pollution Control has completed review of the plans submitted August 7, 1984 for the construction of a cyanide heap leach mineral test operation to be located near Clifton, Utah. The plans appear to conform with the Utah Wastewater Disposal Regulations and therefore a construction permit as constituted by this letter is hereby issued subject to the following conditions.

- OK
1. The dike side slope for pond #1 and pond #2 will be at least 2:1 to prevent erosion.
  2. The freeboard for pond #1 and pond #2 will be a minimum of 3 feet. Freeboard shall be measured from the top of the dike to the water surface.
  3. The pond lining will be properly overlapped between ponds #1 and #2. Overlapping should be made in a manner <sup>that</sup> will completely prevent the possibility of any leaking from the ponds or leaking from the overflow between the ponds.
  4. The fence around the ponds and the heap leach pad will be constructed to prevent access by unauthorized persons or wildlife and domestic animals. The perimeter will also be posted to indicate there is a danger and cyanide is in use.
  5. It is our understanding that this project is a test operation and, if the tests are successful, a full scale heap leach pad will be constructed in the future. Plans and specifications of any future projects must be submitted to this office for review before construction begins. If the plans and specifications are found to be acceptable and in accordance with the Utah Code of Waste Disposal Regulations a construction permit will be issued from this office. A construction permit must be issued by this office before construction of any proposed project of this nature may begin.
- OK.

Mr. Huffaker  
Page Two

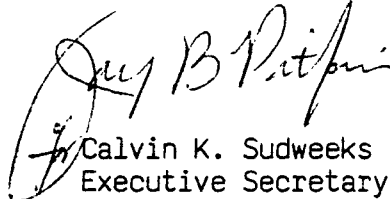
*ask about  
reclamation*

We understand this project to include the construction of one 100 foot square heap leach pad and two cyanide detention ponds. The leach pad will be constructed of sandy material and lined with 20-mil PVC liner. A perimeter berm will be provided for runoff control and a perforated pipe underdrain will be provided for leak detection. The two cyanide ponds will be constructed approximately 24 feet square with 2:1 dike side slope and lined with 9-mil 2 layer polypropylene reinforced polyethylene liner material. The test heap leach operation will be in service for approximately one year. Following the termination of testing all structures will be removed and the area reclaimed.

If you have any questions concerning our review feel free to contact Roger Bishop of this office.

Sincerely,

UTAH WATER POLLUTION CONTROL COMMITTEE

  
Calvin K. Sudweeks  
Executive Secretary

DRB:dm

cc: Tooele County Health Department  
Oil Gas & Mining ✓

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